



Water-Data Report NV-2005

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

WALKER RIVER BASIN, WALKER RIVER BASIN

LOCATION.--Lat 39°06'12", long 118°55'42" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.2, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi upstream from Weber Dam, about 11 mi downstream from gage near Wabuska, and 12 mi northwest of Schurz.

DRAINAGE AREA.--2,700 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Jun 1977 to Sep 1982, Jun 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,215 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sep 1982, at same site at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. Some flow may bypass primary channel and gage at times.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,000 ft³/s, Jul 5, 1980, gage height, unknown; maximum gage height, 10.37 ft, Jan 8, 1997 (different datum); no flow Jul 16-18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft³/s, Jun 2, 6, gage height, 9.84 ft; minimum daily discharge, 5.6 ft³/s, Oct 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14	14	e7.2	16	20	24	17	36	1,270	519	37	24
2	15	13	e7.0	16	20	23	16	37	1,280	566	34	27
3	15	15	e6.6	16	19	20	16	38	1,250	636	33	29
4	14	17	e6.5	17	20	18	17	39	1,240	720	35	27
5	15	16	6.4	17	20	14	19	43	1,250	762	36	24
6	15	13	6.5	18	20	12	22	54	1,260	760	32	24
7	14	11	6.6	15	21	12	24	50	1,230	696	33	30
8	13	11	7.3	15	22	12	26	83	1,210	686	36	26
9	13	12	9.3	16	23	12	24	85	1,200	720	42	27
10	13	10	15	20	24	12	23	68	1,180	722	80	25
11	12	9.6	19	22	23	11	24	74	1,010	736	93	21
12	12	9.9	17	22	23	11	24	87	789	721	68	22
13	12	9.4	16	21	23	12	28	e60	632	677	42	21
14	12	8.6	15	21	22	13	31	e40	506	613	25	18
15	10	7.7	14	21	22	14	32	e25	446	579	17	17
16	8.6	7.6	15	21	23	15	28	e20	510	543	14	21
17	6.6	7.8	15	22	24	15	28	e60	722	523	12	26
18	5.6	7.8	15	23	24	14	27	e90	910	494	11	25
19	5.9	8.1	17	24	24	14	27	292	1,050	447	15	26
20	7.3	8.3	16	23	24	14	28	312	1,130	371	18	28
21	8.6	8.0	17	23	25	14	29	455	1,130	286	17	30
22	9.1	8.1	15	23	25	16	33	722	1,010	213	15	35
23	9.0	8.6	13	22	24	16	29	943	587	177	14	36
24	8.6	8.9	13	22	25	16	26	1,080	407	218	18	38
25	9.9	8.8	12	20	29	17	21	1,150	365	194	20	41
26	11	8.8	12	19	28	19	20	1,150	371	175	20	45
27	14	e8.6	12	21	26	19	19	981	370	157	20	48
28	16	e8.4	14	22	24	16	17	851	350	119	27	51
29	19	8.0	14	22	---	15	18	964	410	83	34	53
30	18	7.5	14	21	---	14	30	1,110	464	60	31	41
31	17	---	17	20	---	15	---	1,210	---	43	27	---
Total	373.2	300.5	390.4	621	647	469	723	12,209	25,539	14,216	956	906
Mean	12.0	10.0	12.6	20.0	23.1	15.1	24.1	394	851	459	30.8	30.2
Max	19	17	19	24	29	24	33	1,210	1,280	762	93	53
Min	5.6	7.5	6.4	15	19	11	16	20	350	43	11	17
Ac-ft	740	596	774	1,230	1,280	930	1,430	24,220	50,660	28,200	1,900	1,800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40.1	62.7	67.8	144	154	130	135	342	425	258	74.1	58.5
Max	149	206	182	1,146	722	387	563	864	1,017	1,155	260	236
(WY)	(1981)	(1999)	(1996)	(1997)	(1997)	(1996)	(1982)	(1997)	(1995)	(1995)	(1980)	(1980)
Min	3.39	0.03	3.97	6.12	20.0	9.87	16.5	32.0	18.3	20.6	14.6	12.4
(WY)	(1978)	(1978)	(1978)	(1978)	(1978)	(2002)	(2002)	(2003)	(2002)	(1977)	(2002)	(2004)

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV—Continued**SUMMARY STATISTICS**

	Calendar Year 2004		Water Year 2005		Water Years 1977 - 2005	
Annual total	10,943.2		57,350.1			
Annual mean	29.9		157		163	
Highest annual mean					374	1997
Lowest annual mean					18.5	2002
Highest daily mean	76	Jun 19	1,280	Jun 2	1,900	Jul 5, 1980
Lowest daily mean	3.5	Sep 1	5.6	Oct 18	0.00	Jul 16, 1977
Annual seven-day minimum	6.3	Sep 19	6.7	Dec 1	0.00	Oct 14, 1994
Maximum peak flow			1,300	Jun 2	2,000	Jul 5, 1980
Maximum peak stage			9.84	Jun 2	10.37	Jan 8, 1997
Annual runoff (ac-ft)	21,710		113,800		118,100	
10 percent exceeds	58		690		504	
50 percent exceeds	28		22		55	
90 percent exceeds	8.6		9.5		13	

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Jun 1976 to Oct 1980; Jul 1994; Mar to Sep.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 6

[Remark codes: <, less than.]

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, uS/cm (00095)	Temper- ature, wat unf degC (00020)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
Mar 09...	1505	Environmental	12	657	6.2	7.9	490	26.0	12.1	41.0	10.2	5.04	
Apr 21...	1030	Bed material	--	--	--	--	--	--	--	--	--	--	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 6

[Remark codes: <, less than.]

Date	Sodium, water, filtrd, mg/L (00930)	Calcium bed sedimnt recover -able, mg/kg (00917)	Magnes- ium, bed sedimnt recover -able, mg/kg (00924)	Potas- sium, bed sedimnt recover -able, mg/kg (00938)	Sodium, bed sedimnt recover -able, mg/kg (00934)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt incr., titr., field, mg/L (00453)	Chlor- ide, Bromide water, field, mg/L (71870)	Fluor- ide, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfur, bed sed <62.5um wet svd	
Mar 09...	54.1	--	--	--	--	159	194	.24	23.1	.9	16.6	60.3	--
Apr 21...	--	20,000	12,000	19,000	16,000	--	--	--	--	--	--	--	.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 3 of 6

[Remark codes: <, less than.]

Date	Residue on evap. at 180degC wat flt	Phos- phorus, sedimnt total, mg/L (70300)	Total carbon, <62.5um wsv nat field percent (00668)	Organic carbon, <62.5um wsv nat field percent (49267)	Boron, water, filtrd, ug/L (01020)	Iron, water, filtrd, ug/L (01046)	Mangan- ese, water, filtrd, ug/L (01056)	Stront- ium, water, filtrd, ug/L (01080)	Alum- inum, bed recover -able, ug/g (01108)	Anti- mony, bed sed fld,tot ug/g (34795)	Arsenic <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed fld,tot ug/g (34805)	Beryll- ium, bed sed fld,tot ug/g (34810)
Mar 09...	323	--	--	--	430	6	528	380	--	--	--	--	--
Apr 21...	--	1,400	1.4	1.3	--	--	--	--	82,000	1.6	33	1,100	2.3

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 4 of 6

[Remark codes: <, less than.]

Date	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Chrom- ium, bed sed <62.5um wet svd field, total, ug/g (34840)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Lantha- num, bed sed <62.5um wet svd field, total, ug/g (01170)	Lead, bed sed <62.5um wet svd field, total, ug/g (34885)	Lithium bed sed <62.5um wet svd field, total, ug/g (34890)	Mangan- ese, bed sed <62.5um wet svd field, total, ug/g (34895)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	
Mar 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr 21...	.420	.170	81	43	15	51	20	44,000	38	20	41	1,700	.29

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 5 of 6

[Remark codes: <, less than.]

Date	Molyb- denum, bed sed <62.5um wet svd fld,tot ug/g (34915)	Nickel, bed sed <62.5um wet svd total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Scand- ium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Stront- ium, bed sed <62.5um bed sed fld,tot ug/g (34965)	Tant- alum, bed sed <62.5um bed sed fld,tot ug/g (34975)	Thall- ium, bed sed <62.5um wet svd dry svd total, ug/g (04064)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Titan- ium, bed sed <62.5um wet svd sedimnt total, ug/g (01153)	Vanad- ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)
Mar 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr 21...	1.8	23	17	13	<3	490	1.2	.700	16	6,600	130	21	100

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 6 of 6

[Remark codes: <, less than.]

Date	Deu- terium/ Protium ratio, water, unfiltrd per mil (82082)	Sr-87/ Sr-86 ratio, water, filtrd, per mil (75978)	U-234, water, filtrd, pCi/L (22610)	U-235, water, filtrd, pCi/L (22620)	U-238, water, filtrd, pCi/L (22603)	Alpha radio- activity bed sedimnt Th-230, pCi/g (04125)	B11/B10 ratio, water, filtrd, per mil (62648)	Gross beta radio- activity bed sed Cs-137, pCi/g (49962)	Ra-226, bed sed Ra-228, bed sedimnt Cs-137, pCi/g (09507)	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	0-18 / 0-16 ratio, water, unfiltrd, per mil (82085)	S34/S32 in sulfate per mil (49932)	
Mar 09...	-107	.70623	4.6	.2	3.6	--	4.07	--	--	--	--	-13.36	7.10
Apr 21...	--	--	--	--	--	31	--	30	1.1	1.3	6.2	--	--